



FIBRE SINTETICHE

Polypropylene monofilament
fiber for reinforcing mortar,
render/plaster and concrete



konstruktive • **leidenschaft**



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PRODUCT DESCRIPTION

FIBRE SINTETICHE are high-density polypropylene microfibers, which can be used as a three-dimensional reinforcement for mortar, plaster, screeds, concrete, shot concrete and cement conglomerates in general.

The product combines easily and homogeneously and its action improves the plastic characteristics, the mechanical resistance to traction, flexion, weathering, frost and thawing. Correct use of FIBRE SINTETICHE improves the mixture quality, which prevents segregation of aggregates and eliminates up to 80% of micro cracks caused by plastic and mechanical shrinkage.

COMPOSITION

FIBRE SINTETICHE are made from high-density 100% Virgin polypropylene.

MIXING

Add FIBRE SINTETICHE to cement conglomerates either before mixing with water or directly to product in cement mixer or concrete lorry mixer before casting. The standard quantity is one bag per cubic metre of product. Different quantities can be applied depending on the needs and performance required. The mixing time to obtain a correct mixture and a homogeneous distribution of the fibre is approx. 3'-5' minutes.

INDICATIVE AMOUNTS REQUIRED

0.9 kg per m³ of mortar or concrete.

COLOUR

White.

PACKAGING

0,9 kg small bags (25 small bags x box of 22.5 kg).

PRODUCT DATA

Appearance	fibre
Form	monofilament
Colour	white
Melt point	+ 160°C
Ignition point	+ 590°C
Elastic modulus	3.5 kN/mm ²
Water absorption	0.01-0.02%
Specific weight	0.91 kg/l
Glass transition temperature	- 18°C
Moisture	< 0.1%
Alkali resistance 40% NaOH solution at +20° C for 1000 hours	99.5 % resistance held

PERFORMANCE DATA

length of fibres	6.0 mm ± 10% mm	EN 14889-1
	12.0 mm ± 10% mm	
	24.0 mm ± 10% mm	
Diameter	6.7 dtex	EN 14889-1
Tensile strength	400.0-500.0 MPa	EN 14889-1
Impact on the concrete consistency	with 0.9 kg/m ³ Vebè Time 7 second	EN 12350-3
Residual resistance	0.9 kg/m ³ to obtain	EN 14651
	0.40 N/mm ² a CMOD = 0.5 mm 0.04 N/mm ² a CMOD = 3.5 mm	





ACCORDING TO



EN 14889-2
Polymeric fibres for concrete for non-structural use

REMARKS

Product for professional use. The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site www.vimark.com.



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